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/ ****	ip Report - Contract RD-107, Tank Order 3	
	On 25 October 1956, a meeting was held at the to discuss progress on the	
subject to	ask order. Present at the meeting were:	
•	OC-E/RAD-EP	
_	stated that preliminary testing has indicated that	
the entr	of the YEF ferrite antennes will not be nearly as high as had been	
hoped. I	his project was initiated on the basis of tests on a ferrite	
televisio	a gatema which should gains of approximately 1 do below a dipole	
The second second	and while formation with the Table of the Investor of the Control	
	a tack and an inch indicated that the sain recess Iron to the sain	
المراكبيس فقراني	at 400 manuscripe to 10 db below a dipole at 00 messes tills. It 19	
بسيفسسين عبري	An About Along and Independ absolut water according to all respective.	
d a Alexander	was removed the product of the following the product of the contract of the co	
۳ مستقسسات	the many house and many restrictions and arresting or lattice than 1806	
idea) I	han wentet of these discurraing test results. Personne too	
	tent date. Busines of the date indicated that an improperty	
1	transmission line in the test may have contributed to	
shielded		
	dy good results.	
627 CM 6015	My good results.	
3.	will continue testing the fermite antenna. The tests will be	
3. performed	will centime testing the ferrite antenna. The tests will be to the ferrite alone without crystal and matched into the trans-	
performed mission 3	will centime testing the ferrite antenna. The tests will be ion the ferrite alone without crystal and matched into the trans- time with a wide band balum. The test program will determine the beams pattern, immediance, and framemory response from 50 to 250	
performed mission 3	will centime testing the ferrite antenna. The tests will be ion the ferrite alone without crystal and matched into the transism with a wide band balum. The test program will determine the terms pattern, impedance, and frequency response from 50 to 250	
performed mission 3 gain, ent megacycle	will centime testing the ferrite antenna. The tests will be ion the ferrite alone without crystal and matched into the transline with a wide band balum. The test program will determine the terms pattern, impedance, and frequency response from 50 to 250 ms. The tests will be performed in an open field test range since some room will not be completed in time. feels that running	
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performed mission I gain, and mogacyvia the response of the or as an end that our planned in the ferri	will continue testing the ferrite antenna. The tests will be i on the ferrite alone without crystal and matched into the trans- lime with a wide band balum. The test program will determine the tesma pattern, impedance, and frequency response from 50 to 250 ms. The tests will be performed in an open field test range since screen room will not be completed in time. feels that running curves outside the 50 to 250 magacyales band is beyond the scope riginal contrast and they have declined to hid on running the tests tension to the contract. They feel that the work is not the type be efficiently done in a recempen laboratory. The testing is for completion by 1 December 1956.	

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COMMOENTIAL

one containing a single ferrite red. Sensitivity measurements indicated that the single ferrite antenna was the more sensitive and it will therefore be the design delivered.

5. Five broad band antennas of the single ferrite type were delivered to the writer on 25 October 1956. It is expected that all other deliverable antennas will have been shipped by 12 November 1956.

	6.	The	projec	st eng	dnesr	has	peen	able	to	epend	i same	tim	on pl	Ame B
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7. The attached response characteristic on one of the wide band ferrites show that in a horizontally polarised field there is very little difference between vertical and horizontal position of the ferrite antenna. In this curve the ordinate is db below some arbitrary reference. It shows that "suck-outs" in the response curve are only one or two db deep. This is a preliminary test and may be superseded by the results of the later test program.

	8.	The	suggestion	of	ustr	g the	fer	rit	0 85 (non-	-lin	war i	mbec ex	ICO BO
that	OW or	18	K sismals m	a j	se da	rtecte	dom		cryst	of at	deo	recei	ABL M	e dis-
CUBSC	d vat	h			H	prom	Leed	to	look	into	the	matt	61. *	

OC-E/R&D-EP/TGW:wlm

(29 Oct. 156)

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